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(71) Applicant: **Knappco, LLC**  
**Hamilton OH 45011 (US)**

(72) Inventors:  
• **DUDLEY, Mark**  
**Kansas City, 54157 (US)**  
• **BJORNEBO, Erik**  
**Kansas City, 64157 (US)**  
• **ROBINSON, Randy**  
**Smithville, 64089 (US)**

(74) Representative: **Hafner & Kohl PartmbB**  
**Schleiermacherstraße 25**  
**90491 Nürnberg (DE)**

(54) **CONTROL SYSTEMS FOR LIQUID PRODUCT DELIVERY VEHICLES**

(57) A product delivery vehicle system includes a product delivery vehicle with at least one tank compartment. The system includes an internal valve fluidly coupled to the tank compartment, a control valve, and an air system comprising a main air valve and a solenoid valve fluidly coupled to the main air valve and to the internal valve. The solenoid valve is operable to open and close the internal valve. The system includes an electronic control unit communicatively coupled to the

control valve, the main air valve, and the solenoid valve. The system includes a tank tag reader operable to read a tank tag and transmit a tank tag indicator associated with the tank tag, the tank tag indicator indicative of a stored liquid type in a distribution tank. The electronic control unit may maintain the internal valve closed and the control valve locked when a product type mismatch is detected.

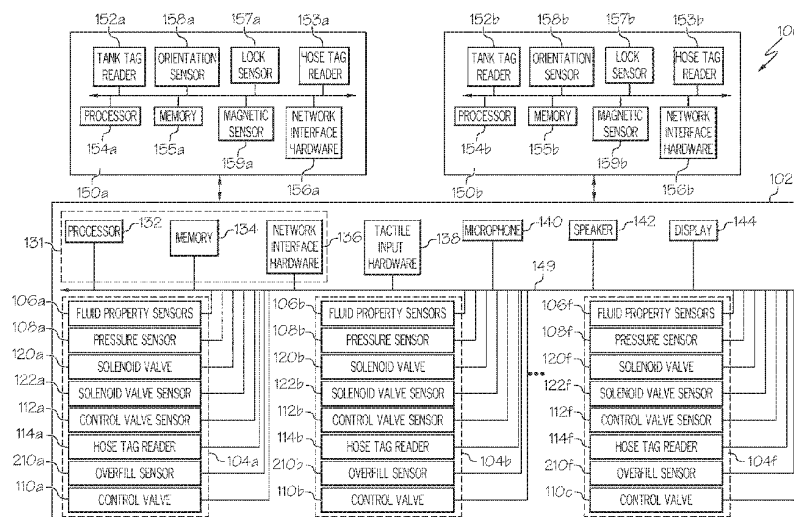


FIG. 3



## EUROPEAN SEARCH REPORT

Application Number

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The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>7 May 2025</b>	Examiner <b>Müller, Claus</b>
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# **ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.**

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